

ABSTRACT OF THE DISCLOSURE

A process of manufacturing a nozzle plate for an ink-jet print head. The nozzle plate includes (a) a substrate having an outside surface which is to be opposed to a print media, an inside surface which is opposite to the outside surface and nozzle holes which are formed through the substrate so as to be open in the outside and inside surfaces, and (b) a non-wetting layer which has a non-wetting characteristic and which covers the outside surface of the substrate. The manufacturing process includes: (i) a masking step of applying a resist on the inside surface of the substrate, and charging the nozzle holes with the insulating material such that portions of the resist protrude outwardly from openings of the nozzle holes on the outside surface; (ii) a non-wetting-layer forming step of forming the non-wetting layer on the outside surface in a plating operation; and (iii) an unmasking step of removing the resist from the substrate.